



# AFCTN Test Report

## 94-137

AFCTB-ID  
94-084



## TMSS Parsing Test

**MIL-M-9977J, Appendix C,  
Nonnuclear Munitions Basic  
Information**

## Document Type Definition

**MAXIMA Corporation**

**DISA Contract #DCA100-93-D-0065**

## Quick Short Test Report

**23 June 1994**



*Prepared for  
Electronic Systems Center  
Air Force CALS Program Office  
HQ ESC/AV-2  
4027 Colonel Glenn Hwy Suite 300  
Dayton OH 45431-1672*

*19960408046*

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Nonnuclear Munitions Basic Information  
Document Type Definition**

**For:**  
**MAXIMA Corporation**  
**DISA Contract #DCA100-93-D-0065**

**Quick Short Test Report**

**23 June 1994**

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# Air Force CALS Test Bed

## *Notification of Test Results*

**23 June 1994**

This notice documents the results of an Air Force CALS Test Bed (AFCTB) Quick Short Test Report (QSTR) evaluation of data submitted by:

### **MAXIMA Corporation**

Identified as follows:

Title:	<b>MIL-M-9977J, Appendix C, Nonnuclear Munitions Basic Information, DTD Parsing Test</b>
Program:	<b>DISA</b>
Program Office:	<b>DISA</b>
Contract No.:	<b>DCA100-93-D-0065</b>
QSTR No.:	<b>AFCTB-ID 94-084</b>

Received on the following media:     **3.5" Diskette**

The results of the QSTR evaluation are as follows:

MIL-STD-1840A Media Format:	<b>N/A</b>
MIL-D-28000A IGES:	<b>N/A</b>
MIL-M-28001B SGML:	<b>Pass</b>
MIL-R-28002A Raster:	<b>N/A</b>
MIL-D-28003 CGM:	<b>N/A</b>

Formal results with associated disclaimer are documented and available from the AFCTB.

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## 1. Introduction

### 1.1 Background

The Department of Defense (DoD) Air Force Continuous Acquisition and Life-cycle Support (CALS) Test Network (AFCTN) is conducting tests of the military standard for the Automated Interchange of Technical Information, MIL-STD-1840A, and its companion suite of military specifications. The AFCTN is a DoD sponsored confederation of voluntary participants from industry and government managed by the Electronic Systems Center (ESC).

The primary objective of the AFCTN is to evaluate the effectiveness of the CALS standards for technical data interchange and to demonstrate the technical capabilities and operational suitability of those standards. Two general categories of tests are performed to evaluate the standards; formal and informal.

Formal tests are large and comprehensive, which follow a written test plan, require specific authorization from the DoD, and may take months to prepare, execute, and report.

Informal tests are quick and short, used by the AFCTN technical staff, to broaden the testing base. They include representative samples of the many systems and applications used by AFCTN participants. They also allow the AFCTN staff to gain feedback from many industry and government interpretations of the standards, to increase the base of participation in the CALS initiative, and respond to the many requests for help that come from participants. Participants take part voluntarily, benefit by receiving an evaluation of their latest implementation (interpretation) of the standards, interact with the AFCTN technical staff, gain experience using the standards, and develop increased confidence in them. The results of informal tests are reported in Quick Short Test Reports (QSTRs) that briefly summarize the standard(s) tested, the hardware and software used, the nature of the test, and the results.

## **1.2 Purpose**

The purpose of this informal test is to analyze Air Force Document Type Definitions (DTDs) for Standard Generalized Markup Language (SGML) syntax, using several commercial and public domain SGML parsers, prior to placing them in the Defense Information Systems Agency (DISA) Asset Source for Software Engineering Technology (ASSET) repository.

## 2. Test Parameters

**Test Plan:** AFCTB 94-084

**Date of Evaluation:** 23 June 1994

**Evaluator:**  
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Air Force CALS Test Bed  
DET 2 HQ ESC/AV-2P  
4027 Colonel Glenn Hwy  
Suite 300  
Dayton OH 45431-1672

**Data Originator:**  
Kay Hill  
MAXIMA Corporation  
2372 Lakeview Drive  
Beavercreek OH 45431  
(513) 427-5888

**Data Description:** Technical Manual Test  
1 DTD

**Data Source System:**  
Text/SGML  
SOFTWARE  
Unknown

**Evaluation Tools Used:**

MIL-M-28001 (SGML)  
PC 486/50  
Exoterica XGMNormalizer v1.2e3.2  
Exoterica Validator v2.2 exl  
McAfee & McAdam Sema Mark-it v2.3  
Public Domain sgmls 1.1

**Standards Tested:** MIL-M-28001B

### 3. 1840A Analysis

#### 3.1 External Packaging

The 3.5" diskette was hand delivered to the Air Force CALS Test Bed (AFCTB). It was not enclosed in any type of container.

The files received by the AFCTB were not MIL-STD-1840A. The files were not named per the standard conventions, as the stated purpose of the evaluation was the basic data structure.

### 4. SGML Analysis

The AFCTB has several parsers available for evaluating submitted DTD and text files. These tools are not used to generate a pass/fail but to report how commercially available software can handle the files. These products are used in the development of technical publications and are good indicators of usability. The use of these products is not an endorsement nor an indication of CALS capability. All operations were performed using the default settings unless specified in the report.

The goal was to configure the DTD under analysis as it would normally be used. However, for this analysis it was necessary to modify the DTD adding the "DOCTYPE doc [" statement to the start and the companion "]>" to the end of the DTD under evaluation, as stated in the comments of the DTD. If the parser did not support a formal file pointing to the location of the ISO character sets, this was added.

The DTD under evaluation, MIL-M-9977J, Appendix C, Nonnuclear Munitions Basic Information, called a sequence of companion DTDs, each in turn, as illustrated by the diagram below. These DTDs were delivered on the same diskette as the DTD to be evaluated. The DTDs were not changed except to point to the succeeding DTD in the sequence and to insert the location of the ISO character set files in the D784CB0.A3 DTD.

MIL-M-9977J Nonnuclear Munitions Basic Information DTD

D977JC0.ORG --> D977JA0.ORG --> D784CB0.A3

The following notes apply to the parsing analysis as indicated in the ensuing paragraphs.

- Note 1. Entity parameters defined more than once is a valid SGML construct. The duplicate definition errors and/or warnings in this analysis do not indicate any problems.
- Note 2. Some of the parsers report mixed content model warnings. The use of such content models is normally unnecessary and therefore not normally recommended. Record boundaries within elements of associated instances may be misinterpreted where a mixed content model exists in the DTD.
- Note 3. The occurrences of warnings "references defined, but not used," appeared because portions of the called DTD, i.e., MIL-M38784C, were not used. They were not used because the entity definitions of the DTD under analysis altered the execution path in the called DTD. The warnings in this analysis do not indicate any problems.

## 4.1 Exoterica Validator

The DTD file was evaluated using the Exoterica Validator *exl* parser. The basic DTD was modified by placing the concrete syntax file and "<!DOCTYPE doc [" at the start and the "]>" at the end. No errors were reported by the parser.

The parser reported 31 total warnings of two types. The first type warning was for a parameter entity declared more than once. See Note 1 above.

```
<!-- **Warning** in "c:\ws\977j.dtd" (entity "%mnucbasld"), line 29,  
    used in "\xgml\9484.dtd", line 123:  
    A parameter entity name has been declared more than once.  
    The entity is "%bodyele".  
    <!ENTITY % bodyele "(basinfo, bomweapld, practbl)" >  
    ^-----  
-->
```

The second type of warning relates to elements defined but not used in any content model. See Note 3 above.

```
<!-- **Warning** in "\xgml\9484.dtd", line 288:  
    An element is not allowed in the document instance because it does not  
    appear in any accessible content model or it is completely excluded.  
    The element is "ACCPREP".  
-->
```

## 4.2 Exoterica XGML Normalizer

The DTD file was parsed using the Exoterica *XGMLNormalizer* parser. The concrete syntax and "<!DOCTYPE doc [" were added to the start and "]>" to the end of the file. No errors or warnings were issued by this utility.

## 4.3 Public Domain sgmls

The DTD file was evaluated using the Public Domain *sgmls* v1.1 parser. The file was modified by adding the "<!DOCTYPE doc [" to the start and "]>" to the end of the file as stated in the comments in the DTD. File D784CB0.A3 location was inserted into the DTD. The parser reported 11 total warnings of the same type. This type warning was for duplicate definitions. See Note 1 above.

```
sgmls: In file included at \ws\9484.dtd, line 51:  
    Warning at c:\ws\977j.dtd, line 29 in declaration parameter 4:  
    Duplicate specification occurred for "%bodyele"; duplicate ignored
```

## 4.4 Sema Mark-it

The DTD file was evaluated using McAfee & McAdam's *Sema Mark-it* v2.3 parser. The file was modified by adding the concrete syntax and "<!DOCTYPE doc [" to the start and "]>" to the end of the file. No errors or warnings were issued by this utility.

---

## 5. Conclusions and Recommendations

The file D977JC0.ORG, MIL-M-9977J, Appendix C, Nonnuclear Munitions Basic Information, conforms to the SGML syntax of ISO Standard 8879, as required by the CALS MIL-M-28001B specification.

The errors, warnings, and comments reported by the parsers used in this evaluation do not indicate invalid SGML syntax. However, the mixed content model flagged by warnings from three of the five parsers, may cause problems in the use of this DTD. See Note 3, Paragraph 4, above.

Recommend the DTD be changed to eliminate the mixed content model. If this is not possible, users should be alerted to the potential problems that may occur in the application of the DTD, and proper guidance should be provided users to avoid the potential problems in the use of this DTD.

## 6. Appendix A - Detailed SGML Analysis

### 6.1 Exoterica Validator

```
<!-- **Warning** in "c:\ws\977j.dtd" (entity "%mnucbasld"), line 29,
   used in "\xgml\9484.dtd", line 123:
A parameter entity name has been declared more than once.
The entity is "%bodyele".
<!ENTITY % bodyele "(basinfo, bomweapld, practbl)" >
^~~~~~
-->
The entity is "%shorttitleuse".
The entity is "%shorttitle".
The entity is "%titles".
The entity is "%sedesc".

<!-- **Warning** in "i:\dtd\784c.dtd" (entity "%m38784c"), line 37,
   used in "c:\ws\977j.dtd" (entity "%mnucbasld"), line 94,
   used in "\xgml\9484.dtd", line 123:
A parameter entity name has been declared more than once.
The entity is "%shorttitleuse".
<!ENTITY % shorttitleuse "IGNORE" >
^~~~~~
-->
The entity is "%shorttitle".
The entity is "%frnt".
The entity is "%titles".
The entity is "%bodyele".
The entity is "%nparcon".
The entity is "%sect".

<!-- **Warning** in "\xgml\9484.dtd", line 288:
An element is not allowed in the document instance because it does not
appear in any accessible content model or it is completely excluded.
The element is "ACCPREP".
-->
The element is "ACFTPREP".
The element is "ADDRESS".
The element is "AIRDESC".
The element is "AIRPREP".
The element is "AIRPREPLD".
The element is "BASINFO".
The element is "BOMBWEAPSECT".
The element is "BOMWEAPDESC".
The element is "BOMWEAPLD".
The element is "CARTINS".
The element is "CHAPTER".
```

The element is "CHGINSSHT".  
The element is "CHGLIST".  
The element is "CHGREC".  
The element is "DDCHAPTER".  
The element is "DDDESC".  
The element is "DDINDEX".  
The element is "DDINTRO".  
The element is "DDLIST".  
The element is "DDSHEET".  
The element is "DEPLOY".  
The element is "DLAYFLT".  
The element is "DOC".  
The element is "DOCNUCBASLD".  
The element is "DOCPART".  
The element is "EMERGPROC".  
The element is "FCTFUNCCHK".  
The element is "FERRYPROC".  
The element is "GENERAL".  
The element is "GENPROC".  
The element is "GENSAFREQ".  
The element is "ILLUSLIST".  
The element is "INSERTPG".  
The element is "INTRO".  
The element is "LOAD".  
The element is "LOADPREP".  
The element is "NONSTRTOSTR".  
The element is "PGNO".  
The element is "POSTLDINSP".  
The element is "PRACTBL".  
The element is "PRACTBLSECT".  
The element is "PREFACE".  
The element is "PREUNLOAD".  
The element is "PRIORLNCH".  
The element is "RACKLOAD".  
The element is "REMOVEPG".  
The element is "SAFING".  
The element is "SCOPE".  
The element is "SHORTTITLE".  
The element is "SPECSAFREQ".  
The element is "STRAYVOLTCHK".  
The element is "STRNONSTR".  
The element is "SUPPEQDESC".  
The element is "SUPPEQUIPDESC".  
The element is "TABLELIST".  
The element is "UNLOAD".  
The element is "UNLOADPROC".  
The element is "VOLUME".  
The element is "WARNPAGE".

---

-->  
<!-- Capacity points/limits:  
TOTALCAP =182649/200000  
ENTCAP =13696/200000  
ENTCHCAP =13313/70000  
ELEMCAP =6656/70000  
GRPCAP =38048/70000  
EXGRPCAP =1056/70000  
EXNMCAP =2016/70000  
ATTCAP =80320/200000  
ATTCHCAP =1941/70000  
AVGRPCAP =25344/70000  
NOTCAP =96/70000  
NOTCHCAP =163/70000  
IDCAP =0/70000  
IDREFCAP =0/70000  
MAPCAP =0/70000  
LKSETCAP =0/70000  
LKNMCAP =0/70000

-->  
<!-- 0 errors and 72 warnings reported. -->

## 6.2 Public Domain sgmls Log

```
sgmls: In file included at \ws\9484.dtd, line 51:  
    Warning at c:\ws\977j.dtd, line 29 in declaration parameter 4:  
        Duplicate specification occurred for "%bodyele"; duplicate ignored  
sgmls: In file included at \ws\9484.dtd, line 51:  
    Warning at c:\ws\977j.dtd, line 33 in declaration parameter 4:  
        Duplicate specification occurred for "%shortitleuse"; duplicate ignored  
sgmls: In file included at \ws\9484.dtd, line 51:  
    Warning at c:\ws\977j.dtd, line 41 in declaration parameter 4:  
        Duplicate specification occurred for "%shorttitle"; duplicate ignored  
sgmls: In file included at \ws\9484.dtd, line 51:  
    Warning at c:\ws\977j.dtd, line 43 in declaration parameter 4:  
        Duplicate specification occurred for "%titles"; duplicate ignored  
sgmls: In file included at \ws\9484.dtd, line 51:  
    Warning at c:\ws\977j.dtd, line 69 in declaration parameter 4:  
        Duplicate specification occurred for "%sedesc"; duplicate ignored  
sgmls: In file included at \ws\9484.dtd, line 51:  
    In file included at c:\ws\977j.dtd, line 94:  
        Warning at i:\dtd\784c.dtd, line 37 in declaration parameter 4:  
            Duplicate specification occurred for "%shortitleuse"; duplicate ignored  
sgmls: In file included at \ws\9484.dtd, line 51:  
    In file included at c:\ws\977j.dtd, line 94:  
        Warning at i:\dtd\784c.dtd, line 45 in declaration parameter 4:  
            Duplicate specification occurred for "%shorttitle"; duplicate ignored  
sgmls: In file included at \ws\9484.dtd, line 51:  
    In file included at c:\ws\977j.dtd, line 94:  
        Warning at i:\dtd\784c.dtd, line 109 in declaration parameter 4:  
            Duplicate specification occurred for "%frnt"; duplicate ignored  
sgmls: In file included at \ws\9484.dtd, line 51:  
    In file included at c:\ws\977j.dtd, line 94:  
        Warning at i:\dtd\784c.dtd, line 126 in declaration parameter 4:  
            Duplicate specification occurred for "%titles"; duplicate ignored  
sgmls: In file included at \ws\9484.dtd, line 51:  
    In file included at c:\ws\977j.dtd, line 94:  
        Warning at i:\dtd\784c.dtd, line 165 in declaration parameter 4:  
            Duplicate specification occurred for "%bodyele"; duplicate ignored  
sgmls: In file included at \ws\9484.dtd, line 51:  
    In file included at c:\ws\977j.dtd, line 94:  
        Warning at i:\dtd\784c.dtd, line 177 in declaration parameter 4:  
            Duplicate specification occurred for "%nparcon"; duplicate ignored  
sgmls: In file included at \ws\9484.dtd, line 51:  
    In file included at c:\ws\977j.dtd, line 94:  
        Warning at i:\dtd\784c.dtd, line 206 in declaration parameter 4:  
            Duplicate specification occurred for "%sect"; duplicate ignored
```

TOTALCAP 182276  
ENTCAP 13696  
ENTCHCAP 12908  
ELEMCAP 6656  
GRPCAP 38048  
EXGRPCAP 1088  
EXNMCAP 2016  
ATTCAP 80320  
ATTCHCAP 1941  
AVGRPCAP 25344  
NOTCAP 96  
NOTCHCAP 163  
IDCAP 0  
IDREFCAP 0  
MAPCAP 0  
LKSETCAP 0  
LKNMCAP 0

### 6.3 Sema Mark-it Parser Log

```
ATTCNT --100-- 48
ATTSPLEN --960-- 0
BSEQLEN --960-- 0
DTAGLEN --16-- 0
DTEMPLEN --16-- 0
ENTLVL --16-- 3
GRPCNT --32-- 22
GRPGTCNT --96-- 27
GRPLVL --16-- 5
LITLEN --3048-- 730
NAMELEN --32-- 14
NORMSEP --2-- 0
PILEN --240-- 0
TAGLEN --960-- 0
TAGLVL --24-- 0
MSDLVL --24-- 2
TOTALCAP --200000-- 191667
ENTCAP --200000-- 16928
ENTCHCAP --70000-- 12990
ELEMCAP --70000-- 6656
GRPCAP --70000-- 44128
EXGRPCAP --70000-- 1088
EXNMCAP --70000-- 2016
ATTCAP --200000-- 80320
ATTCHCAP --70000-- 1941
AVGRPCAP --70000-- 25344
NOTCAP --70000-- 96
NOTCHCAP --70000-- 160
IDCAP --70000-- 0
IDREFCAP --70000-- 0
MAPCAP --70000-- 0
LKSETCAP --70000-- 0
LKNMCAP --70000-- 0
```

## 6.4 D977JC0.ORG

```
<!-- ***** START OF FILE ***** -->

<!-- SUPPLEMENT NOTICE: This file is made available to provide the user with
a digital representation of the DTD found in Appendix D of MIL-M-5096E.
This file is incomplete without MIL-M-5096E. -->

<!-- NOTE: The start and end of this file are marked with a row of asterisks.
If these rows are not present the file may not be complete! -->

<!-- MIL-M-9977J Nonnuclear Munitions Basic Information DTD -->

<!-- The following set of declarations may be referred to by
using a public entity as follows:

<!ENTITY % mnnmnbas PUBLIC "-//USA-DOD//DTD MIL-M-9977J
NMB//EN">
%mnnmnbas; -->

<!-- NOTE: In order to parse the following DTD subset alone,
append the following statement to the beginning of the file:

<!DOCTYPE docnnmnbas [
and the associated "]>" to the end of the file. -->

<!-- ENTITY DECLARATIONS -->

<!ENTITY % mnucbasld PUBLIC "-//USA-DOD//DTD MIL-M-9977J
NBL//EN">

<!ENTITY % bodyele "(munitdesc, suspequipdesc, gunpodsdesc,
sedesc, suppinfo)" >

<!ENTITY % shorttitleuse "IGNORE" >

<![ %shorttitleuse; [
<!ENTITY % shorttitle ", shorttitle?" >
]]>

<!ENTITY % shorttitle " " >
```

```
<!ENTITY % titles "title %shorttitle;" >

<!ENTITY % sedesc "%titles;, bombliftruck, munadapters,
munitiontrailers, ammoloadsys, testequip, testadapters " >

%mnucbasld;

<!-- ELEMENT and ATTRIBUTE LIST DECLARATIONS -->

<!ELEMENT ammoloadsys      - o (%sect;) >
<!ATTLIST ammoloadsys    tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           %bodyatt;
                           %secur; >

<!ELEMENT bombliftruck     - o (%sect;) >
<!ATTLIST bombliftruck   tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           %bodyatt;
                           %secur; >

<!ELEMENT bombtypemun     - o (%sect;) >
<!ATTLIST bombtypemun   tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           %bodyatt;
                           %secur; >

<!ELEMENT cartchafflar     - o (%sect;) >
<!ATTLIST cartchafflar   tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           %bodyatt;
                           %secur; >

<!ELEMENT docnnmunbas     - - (front, body, rear?) +(pgbrk | brk)>
<!ATTLIST docnnmunbas   service %service; 'AF'
                           %secur;
                           %docatt; >

<!ELEMENT fuzes           - o (%sect;) >
<!ATTLIST fuzes         tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           %bodyatt;
                           %secur; >
```

```
<!ELEMENT gunpods      - o  (%sect;) >
<!ATTLIST gunpods    tocentry %yesorno; "1"
                      shortentry %yesorno; "0"
                      %bodyatt;
                      %secur; >

<!ELEMENT gunpodsdesc - -  (%titles;, guns, gunpods)
                  +(figure | table) >
<!ATTLIST gunpodsdesc tocentry %yesorno; "1"
                      shortentry %yesorno; "0"
                      %bodyatt;
                      %secur; >

<!ELEMENT guns          - o  (%sect;) >
<!ATTLIST guns        tocentry %yesorno; "1"
                      shortentry %yesorno; "0"
                      %bodyatt;
                      %secur; >

<!ELEMENT lnchdispensers - o  (%sect;) >
<!ATTLIST lnchdispensers tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          %secur;
                          %bodyatt; >

<!ELEMENT missrockammo - o  (%sect;) >
<!ATTLIST missrockammo tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          %bodyatt;
                          %secur; >

<!ELEMENT munadapters   - o  (%sect;) >
<!ATTLIST munadapters  tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          %bodyatt;
                          %secur; >

<!ELEMENT munitacc      - o  (%sect;) >
<!ATTLIST munitacc      tocentry %yesorno; "1"
                          shortentry %yesorno; "0"
                          verified %yesorno; "0"
                          %bodyatt;
                          %secur; >
```

```
<!ELEMENT munitdesc -- (%titles;, missrockammo, bombtypemun,
                      fuzes, cartchafflar, munitacc)
                      +(figure | table) >
<!ATTLIST munitdesc tocentry %yesorno; "1"
                     shortentry %yesorno; "0"
                     %bodyatt;
                     %secur; >

<!ELEMENT munittrailers - o (%sect;) >
<!ATTLIST munittrailers tocentry %yesorno; "1"
                     shortentry %yesorno; "0"
                     %bodyatt;
                     %secur; >

<!ELEMENT racks - o (%sect;) >
<!ATTLIST racks tocentry %yesorno; "1"
                     shortentry %yesorno; "0"
                     %secur;
                     %bodyatt; >

<!ELEMENT sedesc -- (%sedesc;) +(figure | table) >
<!ATTLIST sedesc tocentry %yesorno; "1"
                     shortentry %yesorno; "0"
                     %secur;
                     %bodyatt; >

<!ELEMENT spectools - o (%sect;) >
<!ATTLIST spectools tocentry %yesorno; "1"
                     shortentry %yesorno; "0"
                     %bodyatt;
                     %secur; >

<!ELEMENT suppinfo -- (%titles;, (para0+ | (spectools,
                                         section+))) +(figure | table) >
<!ATTLIST suppinfo tocentry %yesorno; "1"
                     shortentry %yesorno; "0"
                     %bodyatt;
                     %secur; >

<!ELEMENT suspequipdesc - o (%titles;, racks, lnchdispensers)
                     +(figure | table) >
<!ATTLIST suspequipdesc tocentry %yesorno; "1"
                     shortentry %yesorno; "0"
                     %secur;
                     %bodyatt; >
```

```
<!ELEMENT testadapters      - o  (%sect;)>
<!ATTLIST testadapters    tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           %bodyatt;
                           %secur; >

<!ELEMENT testequip        - o  (%sect;)>
<!ATTLIST testequip      tocentry %yesorno; "1"
                           shortentry %yesorno; "0"
                           %bodyatt;
                           %secur; >

<!-- ***** END OF FILE ***** -->
```